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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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103 East Neck I Huntington, NY			RODRIGUEZ, RUTH C	
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		DATE MAILED: 06/23/2003	DATE MAILED: 06/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.	<u> </u>		$\mathcal{C}_{\mathcal{X}}$				
Examin r Ruth C. Rodriguez 3677 - The MAILING DATE of this communication appears on the cover sh		Application No.	Applicant(s)				
Ruth C. Rodriguez -The MAILING DATE of this communication appears on the cover sh f with the correspondenc address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE g MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE g MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the pariod for reply specified above is less than this; (20) days, a spry within the statutory minimum of this; (30) days will be considered time. If the period for reply specified above is less than this; (20) days, a spry within the statutory minimum of this; (30) days will be considered time. If the period for reply specified above is less than this; (20) days, a spry within the statutory minimum of this; (30) days will be considered time. If the period for reply specified above is less than this; (20) days, a spry within the statutory minimum of this; (30) days will be considered time. If the period for reply specified above is less than this period days and will reply with the statutory minimum of this; (30) days will be considered time. If the period for reply specified above is less than this reply days and will reply filed, may reduce any specified and the statutory reply secretary 2002. 2a)	Office Action Summany						
Prior for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions from large year between 30 FCPR 1.75(6). In or ovent, however, may a reply be limitly filed between 50 FCPR 1.75(6). In or ovent, however, may a reply be limitly filed between 50 FCPR 1.75(6). In or ovent, however, may a reply be limitly filed between 50 FCPR 1.75(6). In or ovent, however, may a reply be limitly filed or the period for reply specified above is less than thirty (30) days, a reply valin line between the mailing date of this community. (30) days, a reply valin in the date of the period for reply specified above is less than the reply filed by the filed than the reply filed by the filed between the period filed by the filed than the reply filed by the filed by	Office Action Summary		Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the previouses of 37 CFR 1.35(g). In no event, however, may a reply be limitely filled Extensions of time may be available under the previouses of 37 CFR 1.35(g). In no event, however, may a reply be limitely filled Extensions of time may be available under the previouses of 37 CFR 1.35(g). In no event, however, may a reply be limitely filled Extensions of time may be available under the previouses of 37 CFR 1.35(g). In no event, however, may a reply be limitely filled Extensions of time may be available under the previous of 37 CFR 1.35(g). In no event, however, may a reply be limitely filled Extensions of the major of the previous of 37 CFR 1.35(g). In no event, however, may a reply be limitely filled Extensions of the previous of the previous of the previous of the statute of	The MAN INC DATE of this accomplisation and						
THE MAILING DATE OF THIS COMMUNICATION. Elatenizes of time rapb available under the provisions of 3 CPR 1.15(b). In no event, however, may a reply be timely filed after \$18, (6) MONTHS from the mailing date of this communication. It NO peaced to reply is sendified between the mailing date of this communication. Failure to reply verbine the set of extended principle of the reply within the distulper principle and between the mailing date of this communication. Failure to reply verbine the set of extended principle date of this communication, even if timely filed, may reduce any Serviced by the Other time than these mains date for the mailing date of this communication, even if timely filed, may reduce any Serviced by the Other time than the them than the mains date. 1) Responsive to communication(s) filled on 26 February 2002. 2a) This action is FINAL. 2b) This action is condition for allowance except for formal matters, prosecution as to the merits is ciosed in accordance with the practice under £x parte Quayrie, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-10 is/are allowed. 6) Claim(s) 1-10 is/are allowed. 6) Claim(s) 1-10 is/are allowed. 7) Claim(s) is/are allowed. 8) The grawing(s) filed on 26 February 2002 is/are. a) accepted or b) Disposition of the Application is objected to by the Examiner. 10) The grawing(s) filed on 26 February 2002 is/are. a) accepted or b) Disposed to by the Examiner. 11) The proposed drawing correction filed on is: a) approved by disposed by the Examiner. 12) The proposed drawing correction filed on is: a) approved by disposed by the Examiner. 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 2) Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies o		ears on the cover shall with th	e correspondenc address				
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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the non-positive engagement between the ring and the shaft must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Objections

2. Claim 1 is objected to because of the following informalities: Claim 1 recites "nonpositive-engagement" between the seventh and eighth lines. This is considered a negative recitation and negative recitations do not have any patentable weight.
Additionally, the Examiner can interpret this limitation as any type of engagement because the specification and the drawings fail to disclose what can be considered a positive and a nonpositive engagement. Correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-5, 7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsumuki et al. (US 4,438,555).

A device connects a shaft (2) to a ring (3). The shaft is characterized in that on the outside face of the shaft, there are deformation regions (8), by means of which a non-positive engagement assure a rotationally fixed connection of the ring to the shaft (Fig. 1).

The deformation regions are distributed regularly in the radial direction over the outside face of the shaft (Figs. 1, 5 and 6).

The deformation regions are formed by at least two impressed features (Figs. 1, 5 and 6).

The impressed features have a conical shape (Figs. 1, 4a-6).

The cone of the impressed features is between 50 degrees and 70 degrees, and is preferably 60 degrees (Figs. 4a and 4b).

Characterized in that two of the impressed features at a time are disposed in pairs (Figs. 1, 5 and 6)

Characterized in that the deformation regions are disposed approximately centrally in the axial direction to the inside face (Fig. 1).

5. Claims 1-3 and 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Sugiuchi et al. (US 4,620,454).

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A device connects a shaft (3) to a ring (2). The shaft is characterized in that on the outside face of the shaft, there are deformation regions (made by 11,12,21,22), by means of which a non-positive engagement assure a rotationally fixed connection of the ring to the shaft (Figs. 1, 4 and 5).

The deformation regions are distributed regularly in the radial direction over the outside face of the shaft (Figs. 1, 4 and 5).

The deformation regions are formed by at least two impressed features (Figs. 1, 4 and 5).

Characterized in that two of the impressed features at a time are disposed in pairs (Figs. 1, 4 and 5).

Characterized in that the impressed features are offset by 180 degrees from one another (Figs. 1, 4 and 5).

Characterized in that the deformation regions are disposed approximately centrally in the axial direction to the inside face (Fig. 1, 4 and 5).

Characterized in that in addition to the impressed features, radially extending indentations are present on the outside face of the shaft (Figs. 4 and 5).

6. Claims 1-5, 7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by French Patent Document FR 806 791 A.

A device connects a shaft (1,1',1") to a ring (5,5'). The shaft is characterized in that on the outside face of the shaft, there are deformation regions (3), by means of which a non-positive engagement assure a rotationally fixed connection of the ring to the shaft (Figs. 1-6).

The deformation regions are distributed regularly in the radial direction over the outside face of the shaft (Figs. 3-5).

The deformation regions are formed by at least two impressed features (Figs. 3-5).

The impressed features have a conical shape (Figs. 3-5).

The cone of the impressed features is between 50 degrees and 70 degrees, and is preferably 60 degrees (Figs. 3-5).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsumuki.

Tsumuki discloses a device having all the features listed above in paragraph 4 for the rejection of claim 4. Tsumuki fails to disclose that the maximum diameter of the impressed features is between 1.5 mm and 2.4 mm and is preferably 1.9 mm. However, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to have the maximum diameter of the impressed features is between 1.5 mm and 2.4 mm and is preferably 1.9 mm because a change in the size of a prior art device is a design consideration within the skill of the art. In re Rose, 220

F.2d 459, 105 USPQ 237 (CCPA 1955). Especially since the applicant states that this dimension is the preferred dimension but fails to provide any reason why it is best to use this specific dimension.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kanamura (US 4,249,298), Yamaji et al. (US 4,781,075), Egner-Walter (US 6,099,195), Aota et al. (US 6,428,236 B2), Suzuki et al. (US 2002/0041790 A1), Japanese Patent Document JP 55-94740, Japanese Patent Document JP 404277321 A, Japanese Patent Document JP 5-10340, Japanese Patent Document JP 6-200951 and Japanese Patent Document JP 6-221333 are cited to show state of the art with respect to a device for connecting a ring to a shaft having some of the features claimed under the current application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruth C Rodriguez whose telephone number is (703) 308-1881. The examiner can normally be reached on M-F 07:15 - 15:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on (703) 306-4115.

Submissions of your responses by facsimile transmission are encouraged. Technology center 3600's facsimile number for before final communications is (703) Art Unit: 3677

872-9326. Technology center 3600's facsimile number for after final communications is (703) 872-9327. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase the patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as PTO's mailroom processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP § 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee that the applicant is paying by check **should not be** submitted by facsimile transmission separately from the check.

Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP § 512). The following is an example of the format the certification might take:

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office (Fax No. (703) 872-9326) on ____(Date)_.

(Typed or printed name of person signing this certificate)

(Signature)

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP § 502.02). Please do not separately mail the original or another copy unless required

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by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response has been transmitted by facsimile will cause further unnecessary delays in the processing of your application, duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

> Ruth C. Rodriguez **Patent Examiner** Art Unit 3677

RGR June 9, 2003

J. J. SWANN

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3600